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(54) Title: REINFORCED FOAM CORES

## (57) Abstract

Rigid foam boards (387) and alternating absorptive fibrous web sheets (390) are adhered to form core panels (385) or billets. Porosity is maintained in the webs for forming integral structural ties by absorbing resin applied to overlying sandwich panel skins. Beveled foam recesses (386) adjacent web edge portions form structural resin fillets (398), and protruding edge portion (388) form expanded connections to the skins. Core panels oriented with their webs crossing are layered with web sheets to form enhanced panels. Boards or core panels and web sheets arranged in inclined stacks form second core panels having webs intersecting panel edges or faces at acute angles. Boards of alternating different physical properties and web sheets are bonded to form reinforced panels having differing interior and exterior densities. Compressible foam panels are used in place of or with web sheets to make bendable core panels. Foam between web edge portions is recessed for bonding a settable material to the edge portions.

